



## The SmartSite® RPO Process

by  
**Richard Cronce, Ph.D.**  
April 3, 2003





## SAICSmartSite®

Remedial  
Process  
Optimization  
(RPO)

+

Software

Services

Technology


Systems


SmartSite

+

Long  
Term  
Monitoring  
(LTM)


Using a Systems Engineering Approach to integrate new technologies with proven operating, maintenance and monitoring methods to reduce costs, simplify operations and accelerate to closure.






## SmartSite® Overview

- A systems approach to operations, maintenance and monitoring
- Combines SAIC's domain knowledge with systems engineering/integration skills
- Results in:
  - >20% cost savings
  - Quick (<2 yr.) payback
  - An integrated RAO/LTM program
  - Empowered operators and managers
  - Documented QA/QC







## SAICSmartSite® Systems Engineering Approach


Technology Enhancement  
Equipment Upgrade  
Process Automation  
Information Management  
O&M Services

Good Engineering Practices  
Proactive Regulatory Approach  
Performance-based Metrics

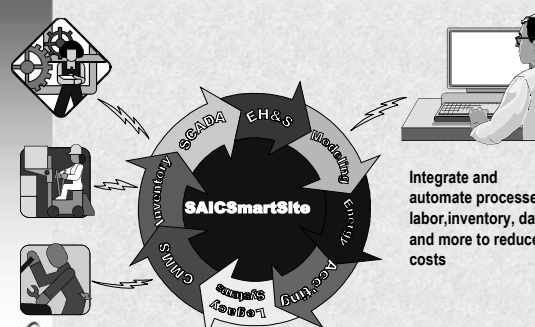


Optimize Performance  
Minimize Costs  
Mitigate Risk







## Integration Tools and Techniques

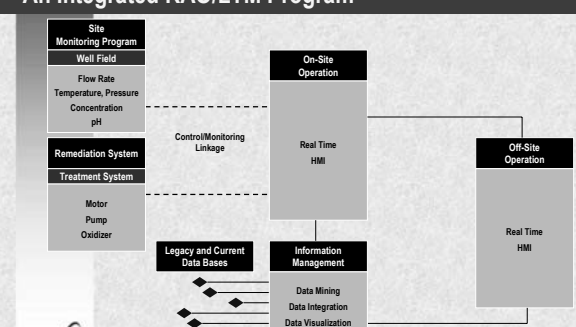


Integrate and automate processes, labor, inventory, data and more to reduce costs





## SAICSmartSite® Engineering Overview: An Integrated RAO/LTM Program



Site Monitoring Program  
Well Field  
Flow Rate  
Temperature, Pressure  
Concentration  
pH

Remediation System  
Treatment System  
Motor  
Pump  
Oxidizer

On-Site Operation  
Real Time HMI

Off-Site Operation  
Real Time HMI

Information Management  
Data Mining  
Data Integration  
Data Visualization  
Trend Analysis

Legacy and Current Data Bases

Control/Monitoring Linkage

